PATENT TRADEHARK OFFICE

IN THE UNITED STATES PRATENT AND TRADEMARK OFFICE

In re application of:

STUMBORG, ET AL.

NOV 1 4 2000

Atty. Dkt. No.:

N.C. 79329

Serial No.: 09/137,084 Group Art Unit:

2811

Filed:

August 20, 1998

Examiner: H. Vu

For: ELECTRONIC DEVICES WITH

BARIUM BARRIER FILM AND PROCESS FOR MAKING SAME

AMENDMENT UNDER 37 C.F.R. §1.111

Assistant Commissioner for Patents Washington, D.C. 20231

Sir:

This is a response to the Office Action dated September 27, 2000 in the above-captioned case.

IN THE CLAIMS:

1. (Amended) A semiconductor device comprising:

a substrate;

a barrier film haying a monolayer of elemental barium atoms on said substrate; and

a metallic material on said barrier film.

(Three Times Amended) A/semiconductor device comprising:

a substrate material Maving a surface;

a barrier film on said substrate surface, said barrier film having a layer comprising elemental barium atoms on [attached to] said surface;

a conductor on said barrier film, said conductor having a tendency to diffuse into said substrate material if in direct contact therewith; and wherein said layer comprising elemental barium atoms serves as a barrier, inhibiting diffusion of the conductor into the substrate material.

LLR